Contribution ID: **182** Type: **Parallel**

Tri-hadron bound states with heavy flavor

Wednesday, 21 August 2019 11:50 (20 minutes)

Through the Born-Oppenheimer Approximation, we have performed a comprehensive investigation of the DDK, BBK and BBB*molecular states. In the framework of One-Pion Exchange model as well as the treatments of the coupled-channel efects and S-D wave mixing, we find loosely bound tri-meson molecular states of these systems with some specific isospin configuration. We also predict that a tri-meson molecular state for the BBB* system is probably existent as long as the molecular states of its two-body subsystem BB* exist.

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Session Classification: Session 3: Exotic hadrons and candidates

Track Classification: Session 3: Exotic hadrons and candidates